|   | 10<br>F×   |            |           |          |          |          |           |          |              |                           |           |       |       |          | 10/808,551 |          |                     |           |          |             |          |                         |           |          | YATSUDA ET AL. |          |                        |           |          |           |                |           |           |          |           |  |   |  |
|---|------------|------------|-----------|----------|----------|----------|-----------|----------|--------------|---------------------------|-----------|-------|-------|----------|------------|----------|---------------------|-----------|----------|-------------|----------|-------------------------|-----------|----------|----------------|----------|------------------------|-----------|----------|-----------|----------------|-----------|-----------|----------|-----------|--|---|--|
|   |            |            |           |          |          |          |           |          |              |                           |           |       |       |          | Examiner   |          |                     |           |          |             |          |                         |           |          | Art Unit       |          |                        |           |          |           |                |           |           |          |           |  |   |  |
|   |            |            |           |          |          |          |           |          | lli l        |                           |           |       |       |          |            |          | Meghan K. Dunwiddie |           |          |             |          |                         |           |          |                |          |                        | 2875      |          |           |                |           |           |          |           |  |   |  |
|   | (Thh       |            |           |          |          |          |           |          |              |                           |           |       |       |          |            | $\neg$   | ٢                   | $\neg$    |          |             |          |                         | $\neg$    |          |                |          |                        |           |          |           | _              |           |           |          |           |  |   |  |
|   | √ Rejected |            |           |          |          |          |           |          |              | (Through numera Cancelled |           |       |       |          |            | 31)      | "   N               |           |          | Non-Elected |          |                         |           |          | A              | Appeal   |                        |           |          |           |                |           |           |          |           |  |   |  |
|   |            |            | = Allowed |          |          |          |           | Ī        | ÷ Restricted |                           |           |       |       | 1        |            |          |                     | 1         | In       | ter         | fere     | n                       | се        |          | 0              |          | Ob                     | jed       | cte      | d         |                |           |           |          |           |  |   |  |
|   |            |            |           |          |          |          |           |          |              |                           |           |       |       |          |            |          |                     |           |          |             |          |                         |           |          |                | ·        |                        |           |          |           |                | ╛         |           |          |           |  |   |  |
|   | Cla        |            |           | Date     |          |          |           |          |              |                           | $\exists$ | Claim |       |          | _          | Date     |                     |           |          | <del></del> |          |                         | Cla       |          | Date           |          |                        |           |          |           | _              | $\exists$ |           |          |           |  |   |  |
|   | Final      | Original   | 4/11/06   |          |          |          |           |          |              |                           |           |       | Final | Original |            |          |                     |           |          | ł           |          |                         |           |          | Final          | Original |                        |           |          |           |                |           |           |          |           |  |   |  |
|   | 1          | 1          | =         |          |          | 4        | 4         |          |              |                           | ゴ         | ļ     |       |          |            |          | _                   |           | $\dashv$ | 4           | $\dashv$ | $\dashv$                | $\exists$ | ļ        | _              |          |                        | 1         | 1        | 4         |                | 1         | 1         | 7        | 7         |  |   |  |
|   | 3          | 3          | =         | $\dashv$ |          | $\dashv$ | $\dashv$  | +        | $\dashv$     | +                         | $\dashv$  | ŀ     |       |          |            |          |                     | $\dashv$  | $\dashv$ | $\dashv$    |          | $\pm$                   | Ⅎ         | t        |                |          |                        | $\exists$ | $\pm$    | $\dagger$ |                | $\exists$ | $\pm$     | 士        | ╛         |  |   |  |
|   | 4          | 4          | =         | $\Box$   |          | 4        | $\dashv$  |          |              |                           | $\exists$ | F     |       |          |            | $\Box$   |                     | $\exists$ |          | $\dashv$    | 4        | $\dashv$                | 4         | F        |                |          |                        | 4         | 4        | 4         | 4              | 4         | -         | +        | 4         |  |   |  |
|   | 5<br>6     | 5<br>6     | =         | $\dashv$ | -        | $\dashv$ | $\dashv$  | ┪        | $\dashv$     | ┪                         | $\dashv$  | ŀ     |       |          |            | $\dashv$ | $\dashv$            | $\dashv$  | -        | 7           | +        | $\dashv$                | $\dashv$  | H        |                |          | H                      | 十         | +        | $\dashv$  | +              | +         | $\dashv$  | +        | $\exists$ |  |   |  |
|   | 7          | 7          | =         |          | ⇉        |          |           |          | $\Box$       | $\Box$                    | $\exists$ | ļ     |       |          |            |          |                     | $\Box$    |          | $\Box$      | $\Box$   | $\exists$               | $\exists$ | F        | $\Box$         |          |                        | 7         | $\top$   |           | $\blacksquare$ | $\Box$    | $\Box$    |          | $\Box$    |  |   |  |
|   | 8          | 8          | =         | $\dashv$ | $\dashv$ | $\dashv$ | -         | $\dashv$ | $\dashv$     | $\dashv$                  | $\dashv$  | ŀ     |       |          | $\vdash$   | -        | $\dashv$            | -         | -        | -           | -        | +                       | $\dashv$  | $\vdash$ | $\dashv$       |          | $\vdash$               | -         | +        | +         | $\dashv$       | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$  |  |   |  |
|   | 10         | 10         | =         | $\vdash$ | 7        | 1        | 7         | ᅥ        | $\dashv$     | 寸                         |           | Ì     |       |          |            |          |                     |           |          |             |          |                         |           | t        |                |          |                        |           |          |           |                |           |           | 1        | コ         |  |   |  |
|   | 11         | 11         | Ξ         |          |          | 4        | $\exists$ |          |              | $\Box$                    | $\exists$ |       |       |          |            |          | _                   | _         |          | $\dashv$    | _        | _                       | _         | ŀ        |                |          | $\square$              | -         | -        |           | 4              | 4         | _         | 4        | $\dashv$  |  |   |  |
|   | 12         | 12<br>13   | =         |          | -        | +        | ᅱ         |          | $\dashv$     | -                         | $\dashv$  | ł     |       |          |            | -        | -                   |           | $\dashv$ | $\dashv$    | $\dashv$ | $\dashv$                | $\dashv$  | }        |                |          | $\vdash$               | $\dashv$  | ╅        | $\dashv$  | $\dashv$       | $\dashv$  | +         | 7        | $\dashv$  |  |   |  |
|   | 14         | 14         | =         |          |          |          |           |          |              |                           | コ         | İ     |       |          |            |          |                     |           | $\Box$   |             |          |                         |           |          |                |          |                        |           | 1        | $\Box$    | $\Box$         | $\Box$    |           | $\Box$   | $\Box$    |  |   |  |
|   | 15         | 15<br>16   | =         |          | _        | 4        | -         | $\dashv$ | _            | _                         | $\dashv$  | -     |       |          |            |          | $\dashv$            | -         | 4        | 긕           | $\dashv$ | -                       | 4         | -        |                |          | $\vdash$               | -         | $\dashv$ | $\dashv$  | $\dashv$       | -         | +         | $\dashv$ | $\dashv$  |  |   |  |
|   | 16<br>17   | 17         | =         |          | $\dashv$ | -        | -         | $\dashv$ | $\dashv$     | $\dashv$                  | $\dashv$  | ł     |       |          |            |          |                     |           |          | +           | -        | $\exists$               | _         | ŀ        |                |          |                        |           |          |           | $\exists$      |           |           |          |           |  |   |  |
|   | 18         | 18         | =         |          |          |          | $\Box$    |          |              |                           | $\Box$    |       |       |          |            |          |                     |           | $\Box$   |             |          |                         |           | F        |                |          |                        |           | $\Box$   | $\dashv$  | _              |           | _         | -        | 4         |  |   |  |
|   | 19         | 19<br>20   | =         |          | -        | $\dashv$ | _         | $\dashv$ |              | -                         | $\dashv$  | -     |       |          | _          |          | $\dashv$            | -         | -        | $\dashv$    | _        | -                       | $\dashv$  | }        |                |          | $\left  \cdot \right $ | -         | +        | $\dashv$  | $\dashv$       | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$  |  |   |  |
|   | 21         | 21         | =         |          | $\dashv$ | $\dashv$ | _         |          |              |                           | ᅥ         | ł     |       |          |            |          |                     |           |          |             |          |                         | ゴ         | į        |                |          |                        |           |          |           |                |           |           |          |           |  |   |  |
|   | 22         | 22         | =         |          |          |          |           |          |              |                           | $\Box$    | Ţ     |       |          |            |          |                     |           | _        | _           |          |                         | 4         | -        |                |          | $\vdash$               | 4         | -        | -         | $\dashv$       | $\dashv$  | $\dashv$  |          | $\dashv$  |  |   |  |
|   | 23         | 23         | =         | Н        | _        | -        | $\dashv$  | $\dashv$ | _            | $\dashv$                  | $\dashv$  | }     |       |          |            |          | Н                   | -         | $\dashv$ |             | ᅱ        | -+                      | _         | ŀ        |                |          | $\vdash$               | 1         | $\dashv$ | 7         | $\dashv$       | 7         | $\dashv$  |          | $\dashv$  |  |   |  |
|   | 25         | 25         | =         |          |          |          |           |          |              |                           |           | İ     |       |          |            |          |                     |           |          |             |          |                         |           |          |                |          |                        |           |          |           |                |           | $\Box$    |          | $\Box$    |  |   |  |
|   |            |            | <u> </u>  |          |          |          | $\dashv$  |          |              | _                         |           | ŀ     |       |          | -          |          | $\dashv$            |           | _        |             | _        |                         | -         | ŀ        |                |          | $\vdash$               | $\dashv$  | $\dashv$ | $\dashv$  |                | $\dashv$  | $\dashv$  |          | ᅱ         |  |   |  |
|   | -          |            | -         | _        | -        | $\dashv$ | $\dashv$  |          |              |                           | $\dashv$  | ŀ     |       |          |            |          | $\vdash$            |           | $\dashv$ |             |          |                         | $\dashv$  | t        |                |          | $\vdash$               | -         | $\dashv$ |           |                |           | $\exists$ |          |           |  |   |  |
|   |            |            |           |          |          |          |           |          |              |                           |           | Ţ     |       |          |            |          |                     |           | $\Box$   |             |          |                         |           |          |                |          |                        | $\Box$    | 7        |           | $\exists$      | 4         | $\dashv$  | _        |           |  |   |  |
|   |            | <u> </u>   | ╀         |          |          |          | -         | $\Box$   | _            | $\dashv$                  | $\dashv$  | }     |       |          | -          | -        | -                   | -         | -        | -           | $\dashv$ |                         | $\dashv$  | ŀ        | -              |          | $\vdash$               | $\dashv$  | -        | $\dashv$  | ᅱ              |           | $\dashv$  | -        |           |  |   |  |
| , | <b></b>    | $\vdash$   | 一         |          | -        |          |           |          |              |                           |           | Ì     |       |          |            |          |                     |           |          |             |          |                         |           | Ì        |                |          |                        |           |          |           |                |           |           |          |           |  |   |  |
|   |            |            |           |          |          |          |           |          |              |                           |           |       |       |          | L          | L        |                     |           | _        |             |          |                         |           | }        |                |          | $\vdash$               | $\dashv$  | $\dashv$ | -         |                | -         | -         |          | _         |  |   |  |
|   | $\vdash$   | -          | ┝         | -        |          |          |           |          |              | Н                         | -         | ŀ     |       |          | H          | H        | H                   |           |          | -           | $\dashv$ | H                       | $\dashv$  | ŀ        |                |          | $\vdash$               | $\dashv$  | 十        | -         | 7              | 1         |           | $\neg$   |           |  |   |  |
|   |            |            |           |          |          |          |           |          |              |                           |           |       |       |          |            |          |                     |           |          |             |          |                         |           | ļ        |                |          |                        |           |          |           | $\Box$         | $\Box$    | $\Box$    | $\Box$   |           |  | • |  |
|   | <u> </u>   |            | ┡         |          |          |          |           |          |              |                           | Н         | ŀ     |       |          | ├-         | _        | H                   |           | _        | _           | $\dashv$ | H                       | $\dashv$  | }        | •              |          | ╁-                     | $\dashv$  | -        | $\dashv$  | $\dashv$       | -         | -         | $\dashv$ | -         |  |   |  |
|   | -          |            | $\vdash$  | -        | _        | $\dashv$ |           | _        |              |                           | $\dashv$  | 1     |       | _        | $\vdash$   | ┢        |                     |           |          |             |          |                         |           | ŀ        |                |          |                        |           | 士        |           |                |           |           |          |           |  |   |  |
|   |            | ·          |           |          |          |          |           |          |              |                           |           |       |       |          |            |          |                     |           |          |             |          |                         |           | [        |                |          |                        |           | $\dashv$ |           | $\Box$         | _         |           | 4        | _         |  |   |  |
|   |            | -          | $\vdash$  | Н        | Щ        | $\vdash$ | Н         | Н        | _            | Н                         | $\dashv$  | ŀ     |       |          | $\vdash$   | -        | H                   |           | _        | $\vdash$    |          | $\vdash$                | $\dashv$  | ŀ        |                |          | $\vdash$               | $\dashv$  | +        | $\dashv$  | $\dashv$       | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$  |  |   |  |
|   |            |            |           |          |          |          |           |          |              |                           |           | l     |       |          |            |          |                     |           |          |             |          |                         | $\Box$    | ţ        |                |          |                        |           |          |           |                |           |           |          |           |  |   |  |
|   |            |            | Г         |          |          |          |           | Ц        |              |                           | Ц         | - [   |       |          | $\vdash$   |          |                     |           |          | $\square$   |          |                         |           | -        |                |          | +                      |           | _        | _         | _              |           |           |          | $\dashv$  |  |   |  |
|   | -          | $\vdash$   | +         |          |          | $\dashv$ |           | H        |              | Н                         | Н         | }     |       |          | $\vdash$   | $\vdash$ | $\vdash$            | -         |          | Н           | Н        | $\mid \rightarrow \mid$ | $\dashv$  | }        |                |          | +                      | $\dashv$  | $\neg$   |           |                | _         | _         |          | $\dashv$  |  |   |  |
|   |            |            |           |          |          |          |           |          |              |                           |           | ļ     |       |          |            |          |                     |           |          |             |          |                         | $\Box$    | ļ        |                |          |                        | $\Box$    |          |           |                |           |           | $\Box$   |           |  |   |  |
|   | <u></u>    | <b>⊢</b> – | -         |          |          |          |           | _        | L            | $\vdash$                  | H         | }     |       | _        | $\vdash$   | -        | -                   |           |          | Щ           | $\vdash$ | H                       |           | }        |                |          | ╁╾                     | $\dashv$  | $\dashv$ | -         |                | $\dashv$  | $\dashv$  | -        | $\dashv$  |  |   |  |
|   |            |            | <u>L</u>  |          |          |          |           |          |              |                           | Н         |       |       |          | 上          |          |                     |           |          |             |          |                         |           | į        |                |          | 上                      |           |          |           |                |           |           |          |           |  |   |  |
|   |            |            | _         |          |          |          |           | _        |              |                           | _         |       |       |          | _          |          |                     |           |          |             |          |                         |           |          |                |          |                        |           |          |           |                |           |           |          |           |  |   |  |

Application/Control No.

Index of Claims

Applicant(s)/Patent under Reexamination